

**In The Claims:**

Claim 1. (currently amended) A pixel structure of an active organic light emitting diode, comprising:

an organic light emitting diode;

a data-line;

a scan-line;

a switch thin film transistor having a first gate terminal, a first source terminal, a first drain terminal and a first lightly doped drain region, wherein the first gate terminal is coupled to the scan-line and the first source terminal is coupled to the data-line;

a control thin film transistor having a second gate terminal, a second source terminal, a second drain terminal and a second lightly doped drain region, wherein the second ~~gate~~ drain terminal is coupled to the organic light emitting diode and the first lightly doped drain region and the second lightly doped drain region have different doped concentrations; and

a capacitor coupled to the first drain terminal and to the second gate terminal.

Claim 2. (original) The pixel structure of an active organic light emitting diode of claim 1, wherein the doped concentration of the second lightly doped drain terminal is higher than that of the first lightly doped drain region.

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Claim 3. (original) The pixel structure of an active organic light emitting diode of claim 1, wherein the switch thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 4. (original) The pixel structure of an active organic light emitting diode of claim 3, wherein the control thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 5. (original) The pixel structure of an active organic light emitting diode of claim 1, wherein the switch thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

Claim 6. (original) The pixel structure of an active organic light emitting diode of claim 5, wherein the control thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

Claim 7. (original) A pixel structure of an active organic light emitting diode, comprising:  
an organic light emitting diode;  
a data-line;  
a scan-line;

a switch thin film transistor having a first gate terminal, a first source terminal, a first drain terminal and a first lightly doped drain region, wherein the first gate terminal is coupled to the scan-line and the first drain terminal is coupled to the data-line;

a control thin film transistor having a second gate terminal, a second source terminal, a second drain terminal and a second lightly doped drain region, wherein the second gate terminal is coupled to the first source terminal, the second drain terminal is coupled to the organic light emitting diode and the first lightly doped drain region and the second lightly doped drain region have different lengths; and

a capacitor coupled to the first drain terminal and to the second gate terminal.

Claim 8. (original) The pixel structure of an active organic light emitting diode of claim 7, wherein the first lightly doped drain terminal is longer than the second lightly doped drain region.

Claim 9. (original) The pixel structure of an active organic light emitting diode of claim 7, wherein the switch thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 10. (original) The pixel structure of an active organic light emitting diode of claim 9, wherein the control thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 11. (original) The pixel structure of an active organic light emitting diode of claim 7, wherein the switch thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

Claim 12. (original) The pixel structure of an active organic light emitting diode of claim 11, wherein the control thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

Claim 13. (original) A pixel structure of an active organic light emitting diode, comprising:

an organic light emitting diode;  
a data-line;  
a scan-line;  
a switch thin film transistor having a first gate terminal, a first source terminal, a first drain terminal and a first lightly doped drain region, wherein the first gate terminal is coupled to the scan-line and the first drain terminal is coupled to the data-line;  
a control thin film transistor having a second gate terminal, a second source terminal and a second drain terminal, wherein the second gate terminal is coupled to the first source terminal and the second drain terminal is coupled to the organic light emitting diode; and

a capacitor coupled to the first drain terminal and to the second gate terminal.

Claim 14. (original) The pixel structure of an active organic light emitting diode of claim 13, wherein the switch thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 15. (original) The pixel structure of an active organic light emitting diode of claim 14, wherein the control thin film transistor is a P-type low-temperature poly-silicon thin film transistor.

Claim 16. (original) The pixel structure of an active organic light emitting diode of claim 13, wherein the switch thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

Claim 17. (original) The pixel structure of an active organic light emitting diode of claim 16, wherein the control thin film transistor is an N-type low-temperature poly-silicon thin film transistor.

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### **CONCLUSION**

It is believed that the pending claims 1-17 are in proper condition for allowance. If the Examiner believes that a telephone conference would expedite the examination of the above-identified patent application, the Examiner is invited to call the undersigned.

Respectfully submitted,

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